

Application No.: NOT YET ASSIGNED

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) Insulation material element of mineral fibers, bound with a binding agent, soluble in a physiological milieu, in form of an insulation material plate or to a insulation material sheet rolled up as a roll and separable into insulation material plates as a portion of a system, prepared for clamped assembly of insulation plates between beams, such as roof rafters, characterized in that the composition of the mineral fibers of the insulation material element features a alkali/earth alkali relation of < 1 and that their fiber structure is determined by an average geometric fiber diameter of $\leq 4 \mu\text{m}$, by a gross density in the range of 8 to 25 kg/m³ and a portion of the binding agent referred to the fiber mass of the insulation material element in the range of 4% to [[5,5]] 5.5 weight %.

2. (Original) Insulation material element according to claim 1, characterized in that said binding agent is an organic binding agent.

3. (Currently Amended) Insulation material element according to claim 1 [[or 2]], characterized in that the binding agent, referred to the fiber mass of the insulation material sheet, is in the range of [[4,5]] 4.5 to 5 weight %.

4. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that its gross density is in the range of 8 to 14 kg/m³, preferably 11 to 14 kg/m³, especially approximately 13 kg/m³, and the insulation material element features a thermal conducting capacity corresponding to thermal conductivity group 040, according to DIN 18165 or similar.

5. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that their gross density is in the range of 18 to 25 kg/m³, preferably 19 to 24 kg/m³, especially 23 kg/m³, and the insulation material element features a thermal conducting capacity corresponding to the thermal conductivity group 035, according to DIN 18165.

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6. (Currently Amended) Insulation material element assembled between beams, such as roof rafters, without additional internal lining, according to ~~one of the preceding claims~~ claim 1, characterized in that it features a fire resistance category of at least EI 30, according to EN 113501.

7. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that the roll up process of the mineral fiber felt, rolled up in form of a roll, is accomplished free of a prior treatment, eventually free of a fulling process.

8. (Original) Insulation material element according to claim 7, characterized in that the wound up roll of the mineral fiber felt is compressed pursuant to a compression ratio of 1:3 until 1:8, preferably 1:4 until 1:6.

9. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that upon said section, markings are provided as cutting aids, featured at least on one roll surface.

10. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that the mineral fibers of the insulation material element, as far as their solubility in a physiological milieu is concerned, correspond to the requirement of European Guideline 97/69/EG and/or the requirements of the German Dangerous Products Norm, Section IV, Nr.22.

11. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that said mineral fibers of the insulation element are produced by internal centrifugation in the centrifuging basket process, with a temperature at the centrifuging basket of at least $[[1.100]]$ 1,100 °C.

12. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that it features a fusion point according to DIN 4102, Part 17, of \geq $[[1.000]]$ 1,000 °C.

13. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized by the following ranges of chemical composition of mineral fibers in weight %:

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SiO ₂	39 – 55 %
Al ₂ O ₃	16 – 27 %
CaO	6 – 20 %
MgO	1 - 5 %
Na ₂ O	0 - 15 %
K ₂ O	0 - 15 %
R ₂ O (Na ₂ O + K ₂ O)	10 – % [[14,7]] <u>14.7</u>
P ₂ O ₅	0 - 3 %
Fe ₂ O ₃ (Iron total)	[[1,5]] <u>1.5</u> - % 15
B ₂ O ₃	0 - 2 %
TiO ₂	0 - 2 %
Other	0 – [[2,0]] % <u>2.0</u>

14. (Currently Amended) Insulation material element according to ~~one of the preceding claims~~ claim 1, characterized in that the fiber structure of the insulation material element is respectively free of beads, meaning the bead portion is < 1%.

15. (Currently Amended) System for clamping insulation material elements between rafters of a building, in particular rafters of a roof, characterized by insulation material elements with the features of ~~one or several of the preceding claims~~ claim 1, being aligned and clamped with a clamping felt between adjacent beams.